

High-Speed Optical Switching Between Ports

The OptiLinx™ OLX-3000 is a versatile, multi-purpose, non-blocking transparent optical switch that provides high-speed switching between ports with minimal effect on overall network latency. The OLX series is capable of switching digital signals up to 4.25 Gb/s with any of its ports. Both a 4RU 144 - port version and 8RU 288-port version are available. For smaller applications, see the 16-port OLX-1000 series.

System Design

The OptiLinx™ OLX-3000 is designed to accept up to three modular port cards with up to forty-eight Small Form-Factor Pluggable (SFP) transceiver modules per port card. Each SFP transceiver module provides the physical ports for one input-output pair. Different types of SFP transceivers support a variety of network configurations:

- 2.5, 2.125, 1.25 and 1.0625 Gb/s and 4.25 Gb/s link rates available
- 865, 1310 and 1550 Gb/s optical media (contact Opticomm for CWDM & DWDM wavelengths)
- Links up to 80 km

The OptiLinx™ OLX-3000 comes equipped with hot-swappable power supplies, fans and port cards to allow users to quickly replace parts without affecting system performance. The OptiLinx™ OLX-3000's controlling software and non-volatile configuration data resides on the module.

Features

- Remote monitoring and switching using Opticomm's LinxView™ software
- Up to 288-port versions available
- Full Duplex switching capacity up to 612 Gb/s
- Hot-pluggable SFP transceivers on all port cards
- Port cards, power supplies and fans are hot-swappable for maximum flexibility
- Opticomm's LinxView™ software allows the user to build configurations by dragging and dropping ports
- Provides point-to-point, multiple loops, and multicast topologies simultaneously



Remote Configuration and Easy Testing

OLX-3000 configuration commands are sent via a 10/100 Ethernet connection using simple intuitive command sets. With regard to network testing, some of the most significant capabilities are:

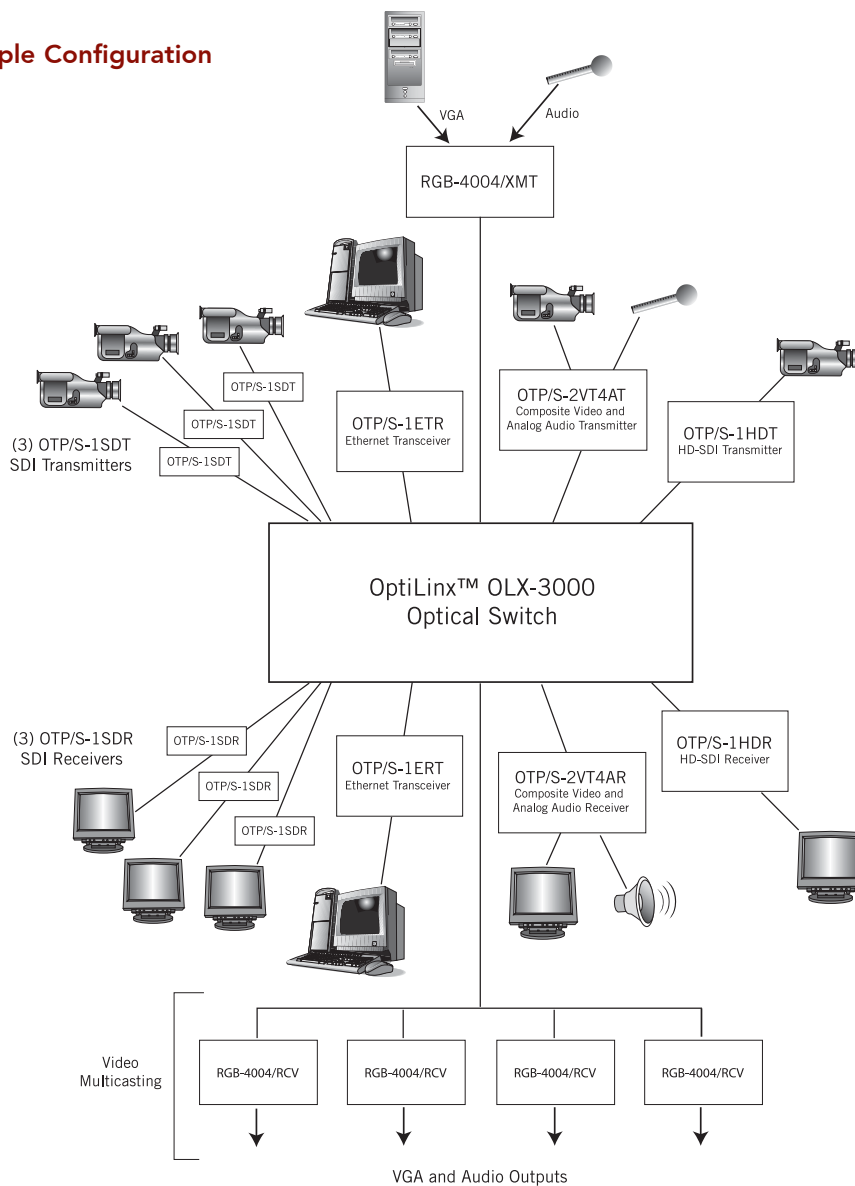
- **Automatic and Remote Reconfiguration and Fault Emulation**
Quickly establish links, emulate optical power breaks with and without path failures, make topology changes, and re-route point-to-point, loop or multicast connections.
- **Dynamic Device Testing**
Through out-of-band control the switch can simulate faults; also, the capability exists to identify improperly operating devices.
- **Increased Resource Sharing Capabilities**
Switched connectivity between local or remote -- up to 50 km -- facilities and between devices allows testing without physically moving equipment.
- **Cable and Hardware Diagnostics**
Quickly isolate interconnect problems; investigate whether the network can provide reliable data transfer over specified distances without touching cables; and test hardware configurations such as hubs.

Optical Switching, Routing and Redundancy

Hardware Specifications

Dimensions	With handles and mounting ears: 19.05" W x 7.0" H x 17.72" L (484 mm by 178 mm by 450 mm) Rack Mount: 17.13" W x 7.0" H x 15.75" L (435 mm by 178 mm by 400 mm)
Weight	43 lbs. (19.5 kg)
Storage temperature	-40° C to +85° C
Operating temperature	-10° C to +60° C
Humidity	10% to 90% (non-condensing)
Data rates	Up to 4.25 Gbps per port (port card dependent)

Sample Configuration



Optiva™ Configurable Communication Platform
Network Management
SDI & HD-SDI
Composite Video, Audio & Data
RGB/VGA/DVI
Audio/FSK/Intercom
Data (Ethernet/Serial/USB)
CATV/RF & L-Band
Optical Switching, Routing & Redundancy
Passive Multiplexing Solutions
Enclosures, Racks & Frames
Power Supplies & Accessories

1 YEAR WARRANTY
ISO 9001:2000 CERTIFIED

CE
FCC PART 15 COMPLIANT
MADE IN THE USA